## Ambiguity in Choosing Coordinate Systems

## Solution:

The most appropriate answer is $\mathbf{e}$.)
Students may have suspicion on d.). We always adopt orthogonal resolution for convenience. However, a non-orthogonal resolution is also possible. Notice that as long as $\mathbf{A}+\mathbf{B}=\mathbf{C}$, then $\mathbf{A}$ and $\mathbf{B}$ can be viewed as resolution of $\mathbf{C}$. Apparently, there are numerous choices of $\mathbf{A}$ and B to achieve so.

